

Claims

- [c1] 1. A method of converting a rotary motion machine to a compound eccentric rotary motion machine, comprising the step of:
converting an input rotary motion of a given input frequency Ω produced by said rotary motion machine to a compound eccentric rotary motion by attaching a separate rotary motion conversion module to said rotary motion machine.
- [c2] 2. The method of claim 1, said compound eccentric rotary motion comprising an output motion of the same said frequency Ω about a primary rotational centerline, compounded by an eccentric motion frequency ω about at least one secondary rotational centerline.
- [c3] 3. The method of claim 1, further comprising the steps of:
mating said rotary motion conversion module with an input rotary motion component of said rotary motion machine to receive said input rotary motion; and
mating an operating attachment with said rotary motion conversion module to receive said compound eccentric rotary motion in substantially the same manner as said

mating said rotary motion conversion module with said input rotary motion component.

- [c4] 4. The method of claim 1, further comprising the step of: mating said rotary motion conversion module with an input rotary motion component of said rotary motion machine to receive said input rotary motion, in substantially the same manner that an operating attachment is mated with input rotary motion component to receive said input rotary motion absent said rotary motion conversion module.
- [c5] 5. The method of claim 1, further comprising the step of: affecting a vacuum to collect waste products, through and using said rotary motion conversion module.
- [c6] 6. An apparatus for converting a rotary motion machine to a compound eccentric rotary motion machine, comprising:
a rotary motion conversion module separate from and attachable to said rotary motion machine, converting an input rotary motion of a given input frequency Ω produced by said rotary motion machine to a compound eccentric rotary motion.
- [c7] 7. The apparatus of claim 6, said compound eccentric rotary motion comprising an output motion of the same

said frequency Ω about a primary rotational centerline, compounded by an eccentric motion frequency ω about at least one secondary rotational centerline.

- [c8] 8. The apparatus of claim 6, wherein:
said rotary motion conversion module mates with an input rotary motion component of said rotary motion machine to receive said input rotary motion in substantially the same manner that an operating attachment mates with said rotary motion conversion module to receive said compound eccentric rotary motion.
- [c9] 9. The apparatus of claim 6, wherein:
said rotary motion conversion module mates with an input rotary motion component of said rotary motion machine to receive said input rotary motion, in substantially the same manner that an operating attachment mates with input rotary motion component to receive said input rotary motion absent said rotary motion conversion module.
- [c10] 10. The apparatus of claim 6, further comprising:
a vacuum affected to collect said waste products, through and using said rotary motion conversion module.
- [c11] 11. A method of adding the capability to collect waste

products to a rotary motion machine, comprising the step of:
attaching a vacuum module separate from said rotary motion machine to said rotary motion machine;
mating an operating attachment with said vacuum module
passing an input rotary motion produced by said rotary motion machine through said vacuum module to said operating attachment; and
affecting a vacuum to collect said waste products, through and using said vacuum module.

[c12] 12. The method of claim 11, further comprising the step of:
said vacuum module passing said input rotary motion compounded with an added eccentric motion through to said operating attachment.

[c13] 13. An apparatus for adding the capability to collect waste products to a rotary motion machine, comprising:
a vacuum module attachable to and separate from said rotary motion machine;
pass-through rotary motion component means (102") of said vacuum module, mating with an operating attachment;
an input rotary motion produced by said rotary motion machine passed through said vacuum module to said

operating attachment; and
a vacuum affected to collect said waste products,
through and using said vacuum module.

[c14] 14. The apparatus of claim 13, further comprising:
said input rotary motion compounded with an eccentric
motion added by and passed through said vacuum mod-
ule to said operating attachment.